Remarks

The above amendments are made to more clearly define the invention under United States practice. Please enter this amendment prior to calculation of the filing fee.

Respectfully submitted,

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Monica L. Croom
September 7, 2001

Version With Markings to Show Changes

In the specification:

Please amend the specification as follows:

At page one, below the title "NEURODEGENERATIVE DISORDER RELATED GENE," please insert -- This application claims priority from PCT Application No. PCT/GB00/00860, filed March 9, 2000, the disclosure of which is incorporated by reference herein in its entirety.--

In the Claims:

Please amend Claims 4, 8, 12, 16-17, 20, 22, 26-27, 30-31, 41, and 43-44.

4. (Amended) Use of a polynucleotide fragment according to **[any preceding claim]** claim 1 wherein the degenerative disorder is a degenerative disorder of the central nervous system.

8. (Amended) Use of a polynuceotide fragment according to **[either of claims 6 or 7]** claim 6 wherein the neurodegenerative disorder is selected from the group comprising Parkinson's Disease, Huntington's Disease/Chorea, Dementia with Lewy bodies, Multiple-system atrophy, Progressive supranuclear palsy, cortical-basal ganglionic (corticobasal) degeneration, vascular Parkinsonism and ballism.

12. (Amended) Use of a polypeptide according to **[any of claims 9 to 11]** claim 9 wherein a degenerative disorder is a degenerative disorder of the central nervous system.

16. (Amended) Use of a polypeptide according to **[either of claims 14 or 15]** claim 15 wherein the neurodegenerative disorder is selected from the group comprising Parkinson's Disease, Huntington's Disease/Chorea, Dementia with Lewy bodies, Multiple-system atrophy, Progressive supranuclear palsy, cortical-basal ganglionic (corticobasal) degeneration,

vascular Parkinsonism and ballism.

17. (Amended) Use of a polypeptide according to **[any of claims 9 to 16]** claim 9 wherein the polypeptide is synthetic.

20. (Amended) A method according to **[either of claims 18 or 19]** claim 18 wherein the animal is a mammal.

22. (Amended) A method according to **[either of claims 18 and 19]** claim 18 wherein the neurodegenerative disorder is a degenerative disorder of the central nervous system.

26. (Amended) A method according to **[either of claims 24 or 25]** claim 24 wherein the neurodegenerative disorder is selected from the group comprising Parkinson's Disease, Huntington's Disease/Chorea, Dementia with Lewy bodies, Multiple-system atrophy, Progressive supranuclear palsy, cortical-basal ganglionic (corticobasal) degeneration, vascular Parkinsonism and ballism.

27. (Amended) A method according to **[either of claims 18 or 19]** claim 18 wherein the mutation results in a truncated product from the PKCγ gene being produced.

30. (Amended) A method according to **[either of claims 18 or 19]** claim 18 wherein detection of the presence of the mutation in the PKCγ gene is achieved by detecting altered levels of the mRNA transcripts or mRNA precursor.

31. (Amended) A method according to **[either of claims 18 or 19]** claim 18 wherein the mutation in the PKCγ gene is detected using antibodies raised to the truncated PKC type I polypeptide.

41. (Amended) An antibody according to **[any of claims 38 to 40]** claim 38 wherein the antibody is a monoclonal antibody.

43. (Amended) Use of an antibody according to **[claims 38-42]** claim 38 for the manufacture of a medicament for preventing, delaying, treating or inhibiting degeneration of the nervous system.

44. (Amended) Use of an antibody according to **[claims 38-47]** claim 38 in a diagnostic assay for testing an human thought to have or be predisposed to having a neural degenerative disorder.

Abstract:

At page 58, the page following the claims, please insert --The present invention relates to the use of a polynucleotide fragment comprising PKCγ gene including type 1 subtype of protein kinase C in the manufacture of a medicament for treating a neurodegenerative disorder. The invention further relates to use of a polypeptide which comprises protein kinase C type 1 in the manufacture of a medicament for treating a neurodegenrative disorder. Further disclosed is a method of testing an animal, such as human, thought to have or be predisposed to having a neurodegenerative disorder which comprises detecting the presence of a mutation in PKCγ gene and/or its associated promoter.--